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TITLE : FUNCTIONAL FIBER, ITS PRODUCTION, PROCESSING SOLUTION FOR  
FUNCTIONAL FIBER

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a functional fiber that has excellent resistance to washing substantially without adverse effect on the fabric hand by adhering a functional substance to the fiber by using a combination of a hydrolyzed protein with a crosslinking agent.

SOLUTION: The objective functional fiber is prepared by adhering a functional substance that has an effect of antimicrobial, deodorizing, anti- inflammation, antiobesity, tightening, moisturization, antioxidant action, skin whitening, blood circulation promotion to the fiber by using a combination of a crosslinking agent with a hydrolyzed protein comprising a lower molecular weight fraction of 2,000-6,000 and a higher molecular weight fraction of 10,000-80,000 at a weight ratio (the lower molecular weight/the higher molecular weight) of 0.02-50, that is selected from hydrolyzed collagen, hydrolyzed fibroin or hydrolyzed wool keratin or the like, and then treating the processed fiber with heat.

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